

European Diabetes Epidemiology Group (EDEG)



26 – 27 April 2021

FINAL PROGRAM

Central European Summer Time (CEST)



Secretariat: KEGM - CONGRESS WORLD

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Final Program

Central European Summer Time (CEST)

Monday 26th April 2021

09:00-09:10 **Opening/Introduction – MATTHIAS SCHULZE (Chair EDEG)**

09:10-10:10 **Oral Presentations Session 1 – Mechanistic basis for DM and its complications**

Chairs: STAVROS LIATIS, ANNA BIRUKOV

OP1 **WITHDRAWN**

OP2 THE GUT MICROBIOME AND DIABETES STATUS IN THE MULTIETHNIC COHORT
Gertraud Maskarinec, University of Hawaii, Honolulu, HI

OP3 WEIGHT CHANGES IN TYPE 2 DIABETES AND CANCER RISK: A LATENT CLASS TRAJECTORY MODEL STUDY
Britt W. Jensen, Center for Clinical Research and Prevention, Bispebjerg and Frederiksberg Hospital, Copenhagen, Denmark

OP4 MACHINE LEARNING FOR DIABETES SURVEILLANCE: THE TYPE 1/TYPE 2 CLASSIFICATION ALGORITHM AND ITS APPLICATION TO THE FRENCH NATIONAL HEALTHCARE DATA SYSTEM
Sonsoles Fuentes, Santé Publique France, Saint Maurice, France

OP5 NATRIURETIC PEPTIDES AND TYPE 2 DIABETES
Chaterina Sujana, Helmholtz-Zentrum München, Neuherberg, Germany

OP6 REDUCED AUTONOMIC NERVOUS FUNCTION DOES NOT DECREASE ESTIMATED GLOMERULAR FILTRATION RATE IN A GENERAL POPULATION: THE WHITEHALL II STUDY
Martin S. Christensen, Aarhus University, Aarhus, Denmark

10:10-10:15 **5 min virtual exercise**

10:15-11:05 **Oral Presentations Session 2 – Diet and Lifestyle Factors in Diabetes**

Chairs: MATTHIAS SCHULZE, NICOLETTE DEN BRAVER

OP7 TOBACCO USE AND INTERACTION WITH GENOTYPES OF HUMAN LEUKOCYTE ANTIGEN IN THE RISK OF LATENT AUTOIMMUNE DIABETES IN ADULTS: RESULTS FROM TWO POPULATION-BASED STUDIES
Jessica Edstorp, Karolinska Institutet, Stockholm, Sweden

OP8 ASSOCIATIONS OF ULTRA-PROCESSED FOOD AND ITS UNDERLYING CONSUMPTION PATTERNS WITH INCIDENT TYPE 2 DIABETES: THE LIFELINES COHORT STUDY
Mingjie Duan, University of Groningen, University Medical Center Groningen, Department of Internal Medicine, Division Nephrology Groningen, The Netherlands

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OP9 LIFESTYLE BEHAVIOR PATTERNS AND INCIDENT TYPE 2 DIABETES IN THE LIFELINES COHORT STUDY

Mingjie Duan, *University of Groningen, University Medical Center Groningen, Department of Internal Medicine, Groningen, The Netherlands*

OP10 REDUCED RANK REGRESSION-DERIVED DIETARY PATTERNS RELATED WITH FATTY LIVER INDEX AND ASSOCIATIONS WITH TYPE 2 DIABETES MELLITUS AMONG GHANAIAN POPULATIONS UNDER TRANSITION: THE RODAM STUDY

Tracy B. Osei, *Heidelberg Institute of Global Health (HIGH), Universitaetsklinikum Heidelberg, Germany*

OP11 ASSOCIATION OF THE ODD-CHAIN FATTY ACIDS IN SPECIFIC LIPID CLASSES WITH TYPE 2 DIABETES RISK AND DIETARY VARIABLES IN THE EPIC-POTSDAM COHORT

Marcela Prada, *Department of Molecular Epidemiology, German Institute of Human Nutrition Potsdam-Rehbrücke, Nuthetal, Germany*

11:05-11:30 25 min break

11:30-12:00 **Plenary Session 1 – Covid 19 & Diabetes**

Chair: STAVROS LIATIS

SAMY HADJADJ

Professor of Endocrinology and Diabetes, Faculty of Medicine and Pharmacy, University of Poitiers and Consultant Endocrinologist and Diabetologist at Poitiers University Hospital, Poitiers, France

12:00-13:00 **Poster Session 1 (PP1-8) – Aetiological Mechanisms**

Chairs: DANIEL WITTE, RASMUS WIBAEK

P1 BIOMARKERS OF SATURATED FATTY ACID AND INCIDENCE OF TYPE 2 DIABETES: A SYSTEMATIC REVIEW AND DOSE-RESPONSE META-ANALYSIS OF PROSPECTIVE OBSERVATIONAL STUDIES

Edyta Szczerba, *German Diabetes Centre, Leibniz Centre for Diabetes Research at Heinrich Heine University Düsseldorf, Düsseldorf, Germany*

P2 THE ASSOCIATION BETWEEN CHRONIC STRESS AND VISCERAL OBESITY OVER 7 YEARS IN THE GENERAL POPULATION: THE HOORN STUDIES

Noreen Siddiqui, *Amsterdam UMC, location VUmc, Amsterdam, the Netherlands*

P3 ADHERENCE TO A SUSTAINABLE DIET AND TYPE 2 DIABETES RISK – A DANISH COHORT STUDY

Fie Langmann, *Department of Public Health, Aarhus University, Denmark*

P4 BODY MASS INDEX IN PARENTS AND THEIR ADULT OFFSPRING: A SYSTEMATIC REVIEW AND META-ANALYSIS

Jie Zhang, *Department of Public Health, Aarhus University, Aarhus, Denmark*

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- P5** FASTING BLOOD GLUCOSE AMONG GHANAIAN ADULTS IS CAUSALLY LINKED WITH MALARIA PARASITE COUNT: A MECHANISTIC CASE STUDY USING CONVERGENT CROSS MAPPING
Carol A. Abidha, Heidelberg Institute of Global Health, Universitätsklinikum Heidelberg, Heidelberg, Germany
- P6** THE ROLE OF PEDIATRIC BCG VACCINE IN TYPE 1 DIABETES ONSET
John Doupis, Salamis Naval and Veterans Hospital, Internal Medicine and Diabetes Department, Salamis, Greece
- P7** POSTPRANDIAL BIOACTIVITY OF SPREAD CHEESE ENHANCED WITH MOUNTAIN TEA AND ORANGE PEEL EXTRACT IN HEALTHY VOLUNTEERS: A CROSSOVER PILOT INTERVENTION STUDY
Olga Papagianni, Laboratory of Nutrition and Public Health, Food Science and Nutrition Department, University of the Aegean, Myrina Limnos, Greece
- P8** RISK FACTORS FOR TYPE 1 AND TYPE 2 DIABETES IN A SAMPLE OF THE GREEK ADULT POPULATION: REVIZITING THE BATTLEFIELD
Christina Voulgari, Fifth Department of Internal Medicine and Infectious Disease Unit, "Evangelismos" Athens General Hospital, Athens, Greece

13:00-13:30 *Lunch Break*

13:30-14:20 Oral Presentations Session 3 – Quality of Life and Psychological Factors in Diabetes

Chairs: FEMKE RUTTERS, GREGERS STIG ANDERSEN

- OP12** THE ASSOCIATION BETWEEN NEIGHBORHOOD DRIVABILITY AND DIABETES INCIDENCE IN TORONTO
Nicole R. den Braver, Amsterdam UMC, Amsterdam Public Health Research Institute, Amsterdam, The Netherlands
- OP13** THE PREVALENCE OF INSOMNIA AND THE ASSOCIATION WITH METABOLIC OUTCOMES IN PEOPLE WITH TYPE 2 DIABETES: THE HOORN DIABETES CARE SYSTEM COHORT
Lenka Groeneveld, Amsterdam UMC, location VUmc, the Netherlands
- OP14** THE ASSOCIATION OF VITAL EXHAUSTION AND BURNOUT WITH (PARAMETERS OF) TYPE 2 DIABETES: A SYSTEMATIC REVIEW AND META-ANALYSIS
Femke Rutters, Amsterdam UMC, Netherlands
- OP15** LIFESTYLE HABITS AND QUALITY OF LIFE IN ADULTS WITH TYPE 1 DIABETES: DIFFERENCES BY TYPE OF INSULIN REGIMEN
Melina Karipidou, Department of Nutrition and Dietetics, Harokopio University, Kallithea, Greece
- OP16** PREVALENCE OF ERECTILE DYSFUNCTION AMONG NOVEL DIABETES SUBGROUPS: RESULTS FROM THE GERMAN DIABETES STUDY
Maalmi Haifa, Institute for Clinical Diabetology, German Diabetes Center, Düsseldorf, Germany

14:20-14:25 *5-min virtual exercise*

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14:25-15:15 Oral Presentations Session 4 – Complications of DM

Chairs: DORTE VISTISEN, PETER HARMS

- OP17** BODY MASS INDEX AND DIABETES MORTALITY: INSTRUMENTAL VARIABLE ANALYSIS USING OFFSPRING BMI AS INDICATOR OF OWN BMI
Kim Blond, Center for Clinical Research and Prevention, Bispebjerg and Frederiksberg Hospital, Copenhagen, Denmark
- OP18** EPIDEMIOLOGY OF COVID-19 IN PEOPLE WITH DIABETES IN NORWAY: A NATIONWIDE REGISTER BASED STUDY OF INFECTION, HOSPITALIZATION, VACCINATION AND MORTALITY
Paz Lopez-Doriga Ruiz, Department of Chronic Diseases and Ageing, Norwegian Institute of Public Health, Oslo, Norway
- OP19** Time trends in diabetes-related complications in France, in 2010-2019
Sandrine Fosse-Edorh, Santé publique France, Saint-Maurice, France
- OP20** DIABETES MEDICATION USE IS ASSOCIATED WITH HIGHER GRADE AND INCREASED PROBABILITY OF MUSCLE-INVASIVE TUMOUR DISEASE IN PATIENTS WITH UROTHELIAL CARCINOMA
Janine PM Faessen, Department of Clinical Epidemiology, VieCuri Medical Centre, Venlo, The Netherlands
- OP21** ASSOCIATION OF HBA1C WITH CANCER PROGNOSIS IN PEOPLE WITH DIABETES AND CANCER: A SYSTEMATIC REVIEW WITH META-ANALYSIS
Suping Ling, Department of Health Sciences, University of Leicester, UK

15:15-15:30 15 min break

15:30-16:30 Poster Session 2 (PP9-16) – Diabetes Monitoring and Treatment

Chairs: FRANCIS FINUCANE, FABIAN EICHELMANN

- P9** HETEROGENEITY IN TRAJECTORIES OF GLYCAEMIC CONTROL IN A LARGE COHORT OF CHILDREN AND ADOLESCENTS WITH TYPE-1-DIABETES
Rasmus Wibæk, Steno Diabetes Center Copenhagen, Gentofte, Denmark
- P10** ASSOCIATION BETWEEN SOCIAL JETLAG AND CHANGE IN GLYCEMIC CONTROL IN PEOPLE WITH TYPE 2 DIABETES. THE HOORN DIABETES CARE SYSTEM COHORT
Emma J Bouman, Amsterdam UMC, location VUmc, Amsterdam, the Netherlands
- P11** HEMOGLOBIN A1C LEVELS AMONG MIGRANTS WITH TYPE 2 DIABETES IN DENMARK: A CROSS-SECTIONAL ANALYSIS
Anders Aasted Isaksen, Aarhus University, Aarhus, Denmark
- P12** THE EFFECT OF SMOKING CESSATION ON METABOLIC PARAMETERS IN PATIENTS WITH TYPE 2 DIABETES MELLITUS
Stamatina Driva, 1st Department of Propaedeutic and Internal Medicine, Laiko General Hospital, National and Kapodistrian University of Athens, Athens, Greece

Monday 26th April 2021

- P13** POLYPHARMACY IN PREGNANCY AND THE RISK OF CONGENITAL MALFORMATIONS – A SYSTEMATIC REVIEW
Mette Ø. Thunbo, *Department of Clinical Medicine, Aarhus University, Denmark*
- P14** EVALUATION OF THE ACTIVITY OF MONOCYTES AND NEUTROPHILS IN PATIENTS WITH DIABETES AND SEPSIS
Kalliopi Lekka, *Internal Medicine Department, University Hospital of Patras, Greece*
- P15** STUDY OF THE PREVALENCE OF STRESS HYPERGLYCEMIA IN PEDIATRIC PATIENTS ADMITTED FOR ACUTE ILLNESS IN A TERTIARY CHILDREN'S HOSPITAL
Emmanouil Korakas, *Second Department of Internal Medicine and Research Institute, Medical School, Attikon University Hospital, National and Kapodistrian University of Athens, Athens, Greece*
- P16** CHALLENGES OF DESIGNING STUDY INTERVENTIONS, BASED ON ARTIFICIAL INTELLIGENCE, IN THE MANAGEMENT OF DIABETES MELLITUS: THE GATEKEEPER STUDY PROTOCOL FOR EVALUATION OF PREDICTIVE MODELLING OF GLYCAEMIC STATUS
George E. Dafoulas, *University of Thessaly, Larisa, Greece*

Tuesday 27th April 2021

09:00-09:50 Oral Presentations Session 5 – Type 1 Diabetes

Chairs: JEAN LAWRENCE, ELSE HELENE IBFELT

- OP22** TRAJECTORIES AND PREDICTORS OF HBA1C IN CHILDREN AND ADOLESCENTS WITH TYPE 1 DIABETES – A DANISH NATIONWIDE COHORT STUDY
Pernille F. Rønn, *Steno Diabetes Center Copenhagen, Gentofte, Denmark*
- OP23** SPATIO-TEMPORAL VARIATIONS IN THE INCIDENCE OF TYPE 1 DIABETES IN FRANCE IN CHILDREN UNDER 15 YEARS OLD
Clara Piffaretti, *Santé publique France, Saint-Maurice, France*
- OP24** MATERNAL GLUTEN INTAKE DURING PREGNANCY AND RISK OF ISLET AUTOIMMUNITY AND TYPE 1 DIABETES IN THE CHILD
Nicolai A Lund-Blix, *Norwegian Institute of Public Health, Oslo, Norway*
- OP25** PARENTAL EDUCATION OR OCCUPATION AND RISK OF CHILDHOOD TYPE 1 DIABETES
Lars C Stene, *Norwegian Institute of Public Health, Oslo*
- OP26** DIETARY FACTORS AND RISK OF ISLET AUTOIMMUNITY AND TYPE 1 DIABETES: A SYSTEMATIC REVIEW AND META-ANALYSIS
Anna-Maria Lampousi, *Institute of Environmental Medicine, Karolinska Institutet, SE-171 77 Stockholm, Sweden*

Tuesday 27th April 2021

09:50-10:20 **Plenary Session 2 – Type 2 diabetes in the (frail) elderly**

Chair: FEMKE RUTTERS

Petra Elders

Professor of General Practice, Department of General Practice and Elderly Care, Amsterdam UMC, University Medical Centers, The Netherlands

10:20-10:25 **5 min virtual exercise**

10:25-11:25 **Poster Session 3 (PP17-24) – Diabetes Complications**

Chairs: SARAH WILD, PERNILLE FALBERG RØNN

- P17** DISCONTINUATION OF CARDIOPROTECTIVE MEDICATION PRIOR TO DEATH, IN THE VERY ELDERLY: A NATIONWIDE REGISTER-BASED STUDY
Vanja Kosjerina, Steno Diabetes Center Copenhagen, Gentofte
- P18** SCREENING UPTAKE AND DETERMINANTS OF SCREENING FOR TYPE 2 DIABETES IN WOMEN WITH A HISTORY OF GESTATIONAL DIABETES: A RETROSPECTIVE COHORT STUDY
Elpida Vounzoulaki, Diabetes Research Centre, Leicester General Hospital, University of Leicester, Leicester, UK
- P19** ARTIFICIAL NEURONAL NETWORK MODEL FOR THREE- AND SIX-MONTH PROGNOSIS IN DIABETIC FOOT SYNDROME
Anna A. Poradzka, Department of Diabetology and Internal Medicine, Medical University of Warsaw, Warsaw, Poland
- P20** DIABETES PREVALENCE AND HEALTH STATUS OF THE DIABETIC POPULATION IN MAYOTTE, FRANCE IN 2019
Abdullah Azaz, Santé publique France, Saint-Maurice, France
- P21** UNRAVELING THE CONCEPTS OF DISTRESS, BURNOUT, AND DEPRESSION IN TYPE 1 DIABETES: A SCOPING REVIEW
Dona A. Kiriella, Community Health and Social Medicine Department, CUNY School of Medicine, New York, New York, United States
- P22** RETROSPECTIVE STUDY OF THE NEPHRO-METABOLIC PROTECTION FROM THE INTENSIFICATION OF TREATMENT WITH METFORMIN PLUS GLP-1 AGONISTS OR SGLT-2 INHIBITORS (STANDALONE OR IN COMBINATION): 24-MONTH REAL WORLD DATA
Ioannis Zoupas, Mediterranean Diabetes and Obesity Clinics (MEDOC), Palaion Faliron, Attica and Karterados, Santorini, Greece
- P23** BURDEN OF DISEASE IN REFUGEE PATIENTS WITH DIABETES ON THE ISLAND OF LESVOS, GREECE
Nikolaos Bountouvis, Endocrinology and Diabetes Outpatient Clinics, General Hospital of Mytilini "Vostanio", Lesvos, Greece
- P24** SCOUTING OF INDICATORS HELPING IN INVESTIGATING THE PATHOGENESIS OF DIABETIC ANGIOPATHY AND NEPHROPATHY IN DIABETES MELLITUS TYPE 1
Olga Ellina, General Hospital of Nea Ionia

11:25-11:50 **15 min break**

Tuesday 27th April 2021

11:50-12:40 Oral Presentations Session 6 – CVD

Chairs: KONSTANTINOS MAKRILAKIS, HANAN AMADID

- OP27** ASSOCIATION OF ECG ABNORMALITIES WITH MAJOR ADVERSE CARDIAC EVENTS IN PEOPLE WITH TYPE 2 DIABETES: THE HOORN DIABETES CARE SYSTEM COHORT
Peter P. Harms, *Amsterdam University Medical Centers, Amsterdam, the Netherlands*
- OP28** INCIDENCE OF MICRO- AND MACROVASCULAR COMPLICATIONS AMONG PERSONS WITH TYPE 2 DIABETES WITH AND WITHOUT SEVERE MENTAL ILLNESS. A NATION-WIDE STUDY
Stine H. Scheuer, *Steno Diabetes Center (SDC) Copenhagen, Denmark*
- OP29** TRIMETHYLAMINE N-OXIDE IS ASSOCIATED WITH INCREASED RISK OF CARDIOVASCULAR MORTALITY IN TYPE 2 DIABETES: RESULTS FROM A DUTCH PROSPECTIVE COHORT
Jose L. Flores-Guerrero, *Department of Internal Medicine, University of Groningen, University Medical Center Groningen, Groningen, The Netherlands*
- OP30** DETERIORATION OF AUTONOMIC NERVOUS FUNCTION IS ASSOCIATED WITH THE DEVELOPMENT OF ARTERIAL STIFFNESS: THE WHITEHALL II COHORT
Jonas Frey Rosborg Schaarup, *Aarhus University, Aarhus, Denmark; Steno Diabetes Centre Aarhus, Aarhus University Hospital, Denmark*
- OP31** THE PREVALENCE AND CARDIOVASCULAR RISK PROFILE OF UNDIAGNOSED DIABETES IN A NORWEGIAN POPULATION. THE HUNT4 SURVEY
Vera Vik Bjarkø, *Norwegian University of Science and Technology, University in Trondheim, Norway*

12:40-13:30 General Assembly (EDEG Members only)



INVITED SPEAKERS

PETRA ELDERS

Professor of General Practice, Department of General Practice and Elderly Care, Amsterdam UMC, University Medical Centers, The Netherlands

SAMY HADJADJ

Professor of Endocrinology and Diabetes, Faculty of Medicine and Pharmacy, University of Poitiers and Consultant Endocrinologist and Diabetologist at Poitiers University Hospital, Poitiers, France

CHAIRS

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Steno Diabetes Center Copenhagen, Denmark

GREGERS STIG ANDERSEN

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National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Bethesda, Maryland, USA

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